Projects & Programs Staff, TSSG, NPIC

Attachments:

As stated above

#### Distribution:

Cy. 1 - NPIC/ExDir.

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4 - NPIC/TSSG/PPS 5 - NPIC/TSSG/RED

· 6 - NPIC/TSSG/SSD

Next 1 Page(s) In Document Exempt

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Appr	oved For R	Release 2003/08/05 : Cl	A-RDP78B	05171A00080	0030021-6	• .	
	•			ATTACHMENT	! to:		25X1
MEMORANDU		Chief, Project:	s & Pro	grams Staf	f, TSSG/NPI	C	
25X1 ATTENTION	•						
SUBJECT:		APSD Activity I	Report 1	for Februa	ry 1970		
l. Tin APSD d	Expl. (1) show	owing items of sebruary 1970:  oitation Support  Photogrammetric  (a) Test result that it can be	Analys ts of t	he STEIN	BA data	đ	
25X1	avera	ram to obtain XY eo mensuration.  (b) The aging subroutine white materials wedges.	co	lor ensemi	ole		25X1
05V4	Group 28 Ja	Operational Act  (a) The NPIC/TS  attemption and action and actions are prepared on the second action and the second actions are prepared as a second action actions are prepared as a second action action actions are prepared as a second action action actions are prepared as a second action action.	SSG/APSI nded the t the US	D technica e ARGO Dis SGS Reston	l consultan aster Study Office on ated 26 Feb		
25X1	the C 10-12 NPIC!	(b) The NPIC Corepresentative CB meeting held February. A branch of the planto fully duction capabili	in ciefing utilize	Was prese	attended		25X1 25X1 25X1

CROUP : Exeladet from nutomatic downgrading and declassification

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(c) APSD personnel attended the KH-hs  Peyload Information Meeting (PIM) held in  (d) Extensive support including operational research and briefings was provided to the O/DIR, NPIC, DDS&T, and NRO.  b. Collection Systems Support  (a) It was agreed in a meeting on  13 Feb. between APSD and DDS&T OSA personnel that no further Red Det test flights of SO-2½ will take place until the Color Tysk  Force Committee establishes collection guidelines.  (b) A report dated 6 Feb.)  has been prepared on the evaluation of special duplicates made on film types SO-369 and 6hs1.  (c) A briefing on color film was presented on 5 Feb. to the Director, NRO and his staff.  (a) Two test missions were evaluated.  (b) A report test missions were evaluated.  (c) A briefing on test missions were evaluated.  (d) Two test missions were evaluated.  (e) Operational fights until favorable results are achieved. A report (YSSG/AFBD/IEB-023/70 dated 2h Feb) has been prepared on the meeting.  (2) Operational Systems  25X1	Appro	oved For Release 2003/08/05 : CIA-RDP78B05171A000800030021-6	
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25X1		drones) missions were evaluated.	<b>25X1</b>
			25X1

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t e	ATTACHMENT to:	
,	SUD TEGE	25X <sup>2</sup>
	SUBJECT: APSD Activity Report for February 1970	
*		•
25X1 25X1 25X1 25X1	(b) Work on satellite Performance Evaluation Reports (PERs) during the month consisted of KH-4 missions (in Repro.),  (in Repro.), (70% complete) and missions (complete) (in Graphics), (25% complete). Special reports on SO-242 color film will be included with PERs on  c. Support to Research and Research	25X 25X 25X
	c. Support to Research and Development	
	(1) Micro-d traces were prepared for RED/TSSG of step wedges and positive and negative Gausian filters.	
9 :	2. The following significant action items are anticipated for the month of March 1970:	
	a. Series of briefings to acquaint DDS&T analysts with the potential value of image enhancement.	
•	b. Initiation of contract with Handbook on Evaluation of Reproductions.	25X <sup>2</sup>
	c. Attendance at the following meetings:	
25X1	(1) PET meeting on 3-5 March at Westover AFB.	
	(2) ARGO meeting on 9 March at NPIC.	
	(3) SENIOR PEG meeting at NPIC.	46
25X1	A The medding at Mile.	:
	and maken at	25X <sup>2</sup>
25X1	d. Briefing to committee on the data flow required for satellite mission breakdown.	
25X1	for Initial phase handling of KH-4 scheduled	25X
		25X <sup>2</sup>
	Chief, Applied Photo Science Division	
•	TSSG/NPIC	25X <sup>2</sup>
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ATTACHMENT to:

25X1

SUBJECT: APSD Activity Report for February 1970

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TSSG/ESD-15/70 5 March 1970

MEMORANDUM FOR: Chief, Technical Services & Support Group, NPIC

THROUGH

Chief, Projects & Programs Staff, TSSG

Executive Officer, TSSG

SUBJECT

ESD Activity Report -- February 1970

1. Noteworthy Events -- February 1970

### a. Project Activity:

- (1) The Equipment Performance Branch (EPB) performed acceptance inspection on 140 items of equipment for Center components including Rhomboids, Objectives and Light Tables.
- (2) EPB received 50 requests for emergency maintenance and serviced 251 instruments under the preventive maintenance program.
- (3) Thirteen modification, design and fabrication tasks were completed by EPB.
- (5) A new project, "Electromagnetic Safety Hazards", was initiated by TEB.
- ► (6) Testing of the Digitized Measuring Light Table was started again after correction by the manufacturer. The Table failed again shortly after starting the new test cycle.
- (7) TEB conducted additional vibration survey work in support of IEG.
- (8) The light table brightness survey was completed and analysis of data started.

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GROUP 1
Excluded from automatic downgrading and decirealitication

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	$\cdot$	
	b. Personnel Activity:	
25X1	(1) attended the ten-day maintenance course for Sanders Associates CRT Display Units.	
25X1	(2) attended the Reliability Maintainability Course sponsored by DDS&T at Headquarters.	
	(3) Three applicants were interviewed for placement in the TEB vacancy.	
2	2. Anticipated Events: March 1970	
	a. Project Activity:	
	(1) Completion of preliminary report on light table brightness.	
	(2) Evaluation of the 1540 Light Table.	25X <sup>2</sup>
25X1	(3) Evaluation of the 1540 Light Table.	
	(4) Pre-acceptance testing of the Advanced Stereo-Rhomboid Mod. II.	·
	(5) Distribution of the Twin Stage Comparator Interim Test Report. The unit is expected to be returned to for redesign and modification as a result of tests.	25X <sup>2</sup>
	(6) Initial testing of the Wide Field Filar Eyepiece.	25X <sup>2</sup>
	b. Personnel Activity:	
	None.	
		25X1
		•
•	Chief Engineering Support Division, TSSG	
D	istribution: Orig Addressee	

- 1 TSSG/ESD/EPB 1 TSSG/ESD/TEB 1 TSSG/ESD

NPIC/TSSG/PPS-019-70 6 March 1970

MEMORANDUM FOR:	Chief, Technical Services and Support Group, NPIC	
MEMOLATINOH I CIT.		
SUBJECT:	Projects & Programs Staff Monthly Report - February 1970	•
	gtass conducted many	
regular and spec	February, the Projects & Programs Staff conducted many cific staff functions for TSSG and also carried out the ional actions. (Including, (1) daily representation to Management Board, (2) frequent working level liaison PBS on budget matters, and (3) with PSG on production	
1. P	Prepared for, conducted and reported on the meeting ary and attended bi-monthly meetings of COMIREX. (Many ontacts with members and observers were handled through ce.)	25X1
2. H tion equip	Helped provide for two sponsored imagery exploita- pment briefings at two COMIREX meetings.	25X1
3. A	Assisted RED in helping to coordinate TSSG Division to the Mid-Seventies P.I. Workstation Concepts.	
4. ( within TS	Coordinated and worked out the allocation of travel funds SG, involving complete and detailed schedules, priorities,	
iustifica	tions, etc.	
	Reviewed and coordinated responses to the NPIC 5 Year Plan	
for TSSG.	KeAlemen mus cool	6
101 122	Concluded Panel B matters on the evaluation of GS-11's	,
*6.	concluded Panel B matters on one statement of the stateme	
using the	a new evaluation re-	
		•
p Durir	ng March, the following significant actions are anticipated:	
1.	Prepare for and conduct the meeting for March. Also,	25X1
prepare We	estover AFB.	

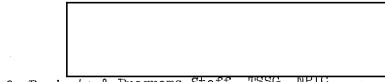
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25X1 25X1

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SUBJECT: Projects & Programs Staff Monthly Report - February 1970

- 2. Study and report on the FY-71 T/O requirements for TSSG.
- 3. Provide assistance to the Executive Officer, TSSG and SSD for the future Center facilities requirements.
- 4. Prepare for and conduct TSSG Panel B meeting on evaluation of GS-09's and lo's.
- 5. Gather facts and prepare for the ultimate installation of the LDX installation in NPIC. (This project started the later part of February.)



Chief, Projects & Programs Staff, TSSG, NPIC

Distribution:

Original - Addressee

6 - NPIC/TSSG/Div&Staffs

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### Approved FeeRelease 2003/08/05: CIA-RDP78B0517/A000800030021-6

NPIC/TSSG/RED-078/70 4 March 1970

	MEMORANDUM FOR: Chief, Technical Services & Support Group	
25X1	ATTENTION : PPS/TSSG	
	SUBJECT: RED Monthly Report on Significant Events (February 1970)	
Α.	Significant Items of Interest for February 1970.	
	1. Dry Process Equipment. NPIC briefings were conducted on two pieces of dry process equipment; i.e., the	
	Enlarger Reader/Printer and the modification of the Diazo Printer/Processor. The project approval requests are in process.	
	2. <u>High Precision Stereocomparator</u> . The Committee on the High Precision Stereocomparator made recommendations concerning the problem of additional memory core capacity	- -
25X1	for the 516 computer which is an integral part of the HPSC. The project approval request is being prepared.	
25X1	preliminary tests atindicate that the optical components for the High Precision Stereocomparator exceed specifications. The three-week acceptance	25X
25X1	test atis scheduled for 9 March 1970. The April shipment date still looks good. However, this date depends upon the results of the final acceptance test.	25X
	3. Advanced Stereo Rhomboids. has submitted a proposal for 0.25% and 0.50% objectives for the Advanced Stereo Rhomboids.	25X
25X1 25X1	Binocular Tube Magnifier. Evaluation of the Binocular Tube Magnifier has been completed. The instrument is only partially successful-optical convergence at high magnification was unsatisfactory. There is no apparent interest in a production procurement of this instrument.	

Excluded from subconciley downwarding out declarations

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### Approved ForRelease 2003/08/05 : CIA-RDP78B05171A000800030021-6

SUBJECT: RED Monthly Report on Significant Events (February 1970)

	•		
	5.	Light Table Vibration. has submitted a proposal for investigating the vibration problem in light tables.	25X1
	6.	1540 Light Tables.  1540 prototype light tables preacceptance tests have been completed. The	25X1 25X1
25X1 25X1 25X1 25X1	7.	Image Comparison Microstereoscope. A letter was received from during February 1970 confirming willingness to absorb additional costs of this development to the extent of Difficulties in assembly have necessitated modification of the central linkage-a revised design will be forwarded to NPIC during the first week of March 1970. Despite this and other assembly difficulties, still predicts completion on schedule and with no additional costs. A preliminary optical alignment was completed-claims unexpectedly good resolutions of 6 lines/mm power.	25X1
25X1	8.	Automatic Stereoscanner. The proposal for completion of the scanner development has been received. We are concurrently evaluating the proposal, along with a proposal from Division, for an Engineering Audit of the development at	25X1 25X1
25X1 25X1	9.	Stereogram Printer Optical Development. has not completed a revised statement of work for the first 12 months, as predicted last month. The Lens Designers have encountered difficulties in achieving desired resolutions at minimum magnification of 2X, and we are considering raising the minimum to 4X. Our optical consultant, has recommended a change in the anamorphic design from cylinder lenses to a prismatic arrangement. agreed and is now working in that direction.	25X1
25X1	10.	Comparison of Line Scan and Photographic Images for Target Identification. personnel reviewed the final report from entitled "A Comparison of Line Scan and Photographic Images for Target Identification," in terms of planning the second phase of the research effort. Recent discussions with TSSG management and scientists have	25X1 25X1
			,(,

### SEUKH 1

25X1

25X1

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SUBJECT: RED Monthly Report on Significant Events (February 1970)

resulted in a tentative experimental design which shall evaluate GOB photointerpretation with ground resolution characteristic of present as well as future photographic acquisition systems. Mid-70's P. I. Workstation. 11. 25X1 met with DC/PSG on 4 and 25 February, and with C/OD/IEG and his staff on 9 February to coordinate the Center's evaluation of Mid-70's P. I. Workstation concepts. 12. Light Table "Sunburn". RED received from the Office of Medical Services a preliminary evaluation of a reported "sunburn" caused by a high intensity light table. The table was sent to the National Bureau of Standards in order to determine the characteristics of radiant energy being emitted by the table in question. 13. Briefing for IEG Interpreters. ATB personnel 25X1 chaired a briefing for IEG interpreters who participated as subjects in P. I. Target Knowledge and Hunting and Reasoning tests during Phase I of the BY 69-70 contract. P. I. Training Program. HFS/ATB personnel also chaired a coordination meeting with the IEG/TSSG task force to develop a list of candidate targets for [ 25X1 Training Program currently under development. Chip R&D Implementation Investigation. A Center-wide Coordination Committee met to evaluate the progress of 15. the Chip R&D Implementation Investigation, Contract with[ 25X1 A thorough discussion and evaluation

s experimental design and overall approach

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was realized during the three-day conference. Special emphasis was placed upon the compatibility of the

proposed chip system alternatives and other information systems currently under consideration for the Center.

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	SUBJI	ECT: RED Monthly Report on Significant Events (February 1970)	
25X1	16.	Unconventional Photographic Systems. Briefings for the Unconventional Photographic Systems project were completed. The staff study has progressed to the TSSG level for this item.	
	17.	RIT Grant Program. Thesis proposals and reports which have been in arrears under the RIT Grant Program were received. It is now considered on schedule.	
25X1	18.	R&D Proposals. EL/ATB, generated 1971 R&D proposals in the areas of (a) study of specialized color reproduction methods for color films, and (b) producing a colorimetric control target for quality control of color films.	0.5744
•	19.	Support to DDS&T. On 17-20 February provided special support and consultation at Headquarters to DDS&T related to image manipulation.	25X1
25X1	20.	Image Quality Assessment Briefings. On 20 February  gave the first of a series of orientation  briefings to RED and APSD personnel. This briefing  covered Image Quality Assessment. Future Friday  briefings will cover other aspects of laboratory operations and contractual efforts.	
25X1	21.	Fortran IV Program.  Written a Fortran IV program for the Univac 494 computer.  This program, called takes spectrophotometric  data from two individual dye layers with an equivalent neutral density of one and generates the theoretical	25X1
	×	dyes at density levels from the N.B.S.U.C.S.  0.1. This provides both the I.C.I. and the N.B.S.U.C.S.  color coordinates and their luminosity. This program has yet to be validated.	
	22	project level FY-71 RGB Budget was also of the OPPB-NPIC/PPBS month. This is in anticipation of the OPPB-NPIC/PPBS FY-71 Operating Budget Call which is scheduled for 15 April 1970.	
25X1	23	represented NPIC R&D interests	25X1

### SECKET

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SUBJECT: RED Monthly Report on Significant Events (February 1970)

Production Oriented Color Enlarger, Narrow-Band Color Viewer Study, Development of a High-Fidelity Color Duping System, and Evaluation of Image Distortions over distances of 100 micrometers or less. Recommendations on the second and fourth items were accepted; those on the first and third items were taken under advisement.

- 24. Mid-70's P. I. Workstation. Considerable time was spent throughout the month attempting to solicit and coordinate inputs for the next phase of this planning program. All inputs are promised by the end of this week. Since the due date for these was 26 January 1970, the date for the preliminary wrap-up briefing must be slipped from 2 March to 16 March.
- Automatic Target Indexing Device. This equipment is still scheduled for delivery in September 1970. A preliminary schedule has been formulated for the T&E, Training, and Operational evaluation of this device after its delivery. Briefings on the ATID were presented to and to COMIREX.

- Advanced Automated Graphics. A series of briefings and demonstrations on the capabilities of the Adage Graphics Terminal were presented at the National Institutes of Health using their Adage equipment. These demonstrations were tailored to NPIC functions of report editing and graphics manipulation. Sixty-nine people from throughout the Agency attended these demonstrations and their reactions were quite favorable as to its potential. A film is being prepared of this demonstration.
- 27. Wide-Field, High-Powered Anamorphic Stereoviewer. This project, which has been in a "stop-work" position for several months, is now ready to proceed into the fabrication phase with a new schedule and new technical milestones.
- 28. <u>Vu-graph Maintenance</u>, All of RED's vu-graphs have now been filed in a logical manner. An index and checkout procedure has been established.

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		SUBJ	ECT: RED Monthly Report on Significant Events (February 1970)	)
		29.	IEG Key. At the request of Chief, TSSG, a study was conducted to determine whether any cost reductions could be made in the production of a newly designed IEG interpretation and identification Key. A report has been forwarded listing specific recommendations.	
		30.	Contract Information System. In response to a directive from Chief, RED, the Contract Information System inputs have been updated and corrected. A new format for the Data Sheets has been developed in an attempt to reduce duplication of effort. Savings should be in the area of 25% to 30% in man-hours.	
25X1 25X1 25X1		31.	Personnel. returned from leave on 24 February 1970. entered on duty on 16 February from TSD. is a chemist and will be primarily concerned with unconventional emulsions.	
		32.	Training. completed the Fortran IV Programming Course conducted by AID/PSG.	25X1
	В.	Anti	cipated Items of Interest for March 1970.	
: 1		1.	Image Comparison Microstereoscope. expects assembly to be complete and testing to start by 20 March.	25X1
25X1 25X1	Ą	2.	Automatic Stereo Scanner. On 4 March 1970, Messrs.  will give a presentation in RED amplifying the information in their proposal. It is anticipated that an RED briefing for recommending future action on this matter, will be available shortly thereafter.	45
,	С.		Attachment 1 (TOP SECRET - for the report ED/RSB significant events for February 1970.	25X1
			Deputy Chier Research & Engineering Division	25X1
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	6 March 1970	25X1
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	MEMORANDUM FOR: Chief, Research & Engineering Division, TSSG/NPIC	
	SUBJECT: Reconnaissance Systems Branch Monthly Report February 1970	
	Significant Events for the Month of February 1970:	
25X1	1. Navy R&D, on a new laser reconnaissance collection system. Mr. Lundahl was briefed on the system after which the document concerned was turned	-
25X1	over to	<i>3</i>
25X1	2. ORD, regarding a possible new collection capability. A memorandum on the results of the meeting will be given limited distribution.	
25X1	3. RSB prepared and submitted to NRO an NPIC recommendation for a target test area for the new NRO SLR program. The recommendation was accepted by and contract negotiations for the design and development of the test system will begin in the first week of March.	
25X1 25X1	developed for the Air Force. The project, will be under Wright-Patterson AFB. It makes use of new optical design and image intensifiers that have obtained daylight quality photography at light level as low as 10 <sup>-5</sup> . It has obtained 5' resolutions at 50,000 feet altitude under these conditions. VARO has several capabilities that may be of interest to RED, including the production of optics from melt to finished lens and some work in color photo projections.	<b>25X</b> 1
	5. RSB has begun work on a side-looking-radar chapter for the technical publication Standing Prerequisites for the Exploitation of Collection Systems (SPECS). The publication of NPIC requirements for SLR is needed in view of the development of new and modified SLR systems.	
25X1	6. attended a DIA-sponsored meeting on the IRIS II camera improvement program. The program will use mission material with SAC providing the operational parameters, the Air Force flying the operational missions, NRTSC processing the film, and NPIC/APSD providing the technical evaluation of the film.	25X1 25X1
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	6 March 1970	25X1
	SUBJECT: Reconnaissance Systems Branch Monthly Report February 1970	•
25X1	7participated in the following meetings: 2 February - a meeting with SOC onsoftware,	25X1
25X1	exposure, and indexing;  4 February - a meeting with ACIC, regarding calibrations;	25X1
	16 February - a meeting with NRO personnel on PHOTINT- ELINT techniques (Mr. Lundahl was briefed on the same subject on 19 February); and	
	17 February - a meeting with the Production Management Board and AID personnel to define tasking for AID.	25X1
25X1	8. On 19 February, as Chairman of the Technical Task Team, briefed COMIREX concerning the Impact on Exploitation R&D. Previously he briefed the Executive Director on the same subject.	25X1 25X1
		25X1
	Chief, Reconnaissance Systems Branch, RED/TSSG/NPIC	